

EAST

5-11-04

| L Number | Hits | Search Text | DB | Time stamp |
|----------|------|--|---|------------------|
| 6 | 0 | Kamiya.in. and Kondoin. and Saski.in. and oba.in. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 12:06 |
| 7 | 0 | Kamiya.in. and Kondo.in. and Saski.in. and oba.in. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 12:07 |
| 8 | 115 | advics.asn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 12:07 |
| 9 | 81 | advics.asn. and brak\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 13:34 |
| 10 | 9 | advics.asn. and brak\$4 same vibration | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 12:12 |

| | | | | |
|----|-----|---|--------------------|------------------|
| 11 | 149 | ("5928301" "5823281" "5012166" "5604412" "5734241" "5974878" "4358720" "4469995" "4797075" "4915319" "4980621" "5013956" "5385216" "5484041" "5791427" "5856709" "5868410" "6050160" "6145386" "6305506" "6322164" "4623042" "4290268" "6046560" "4347471" "4930770" "5333944" "5457372" "5628472" "5664735" "5705903" "5927447" "5990653" "6067159" "6111643" "6131057" "6151962" "6158822" "6199670" "6206482" "6231134" "6241053" "6270172" "6416140" "6425643" "6464308" "5804935" "6005358" "4588057" "5343134").pn. ("4548298" "4570766" "5679087" "5685798" "4297038" "4362004" "4406352" "4458193" "4760278" "4864872" "4895227" "4898342" "4926977" "4986614" "4997237" "5000524" "5009063" "5219214" "5327795" "5347895" "5406154" "5435417" | USPAT; US-PGPUB | 2004/05/11 12:12 |
|----|-----|---|--------------------|------------------|

| | | | | |
|--|----|--|--------------------|------------------|
| 12 | 29 | ("5928301" "5823281" "5012166" "5604412" "5734241" "5974878" "4358720" "4469995" "4797075" "4915319" "4980621" "5013956" "5385216" "5484041" "5791427" "5856709" "5868410" "6050160" "6145386" "6305506" "6322164" "4623042" "4290268" "6046560" "4347471" "4930770" "5333944" "5457372" "5628472" "5664735" "5705903" "5927447" "5990653" "6067159" "6111643" "6131057" "6151962" "6158822" "6199670" "6206482" "6231134" "6241053" "6270172" "6416140" "6425643" "6464308" "5804935" "6005358" "4588057" "5343134").pn. ("4548298" "4570766" "5679087" "5685798" "4297038" "4362004" "4406352" "4458193" "4760278" "4864872" "4895227" "4898342" "4926977" "4986614" "4997237" "5000524" "5009063" "5219214" "5327795" "5447898" "5477159" "5406154" "5435417" | USPAT; US-PGPUB | 2004/05/11 12:12 |
| Search History 5/11/04 1:53:20 PM Page 3 C:\APPS\least\workspaces\5447898.wsp | | | | |

| | | | | |
|---|---|--|--------------------|------------------|
| 13 | 7 | ("5928301" "5823281" "5012166" "5604412" "5734241" "5974878" "4358720" "4469995" "4797075" "4915319" "4980621" "5013956" "5385216" "5484041" "5791427" "5856709" "5868410" "6050160" "6145386" "6305506" "6322164" "4623042" "4290268" "6046560" "4347471" "4930770" "5333944" "5457372" "5628472" "5664735" "5705903" "5927447" "5990653" "6067159" "6111643" "6131057" "6151962" "6158822" "6199670" "6206482" "6231134" "6241053" "6270172" "6416140" "6425643" "6464308" "5804935" "6005358" "4588057" "5343134").pn. ("4548298" "4570766" "5679087" "5685798" "4297038" "4362004" "4406352" "4458193" "4760278" "4864872" "4895227" "4898342" "4926977" "4986614" "4997237" "5000524" "5009063" "5219214" "5327795" "5347895" "5077149" "5406154" "5435417" | USPAT; US-PGPUB | 2004/05/11 12:13 |
| Search History 5/11/04 1:56:20 PM Page 4 C:\APPS\least\workspaces\10771459.wsp | | | | |

| | | | | |
|----|---|--|--------------------|------------------|
| 14 | 1 | ("5928301" "5823281" "5012166" "5604412" "5734241" "5974878" "4358720" "4469995" "4797075" "4915319" "4980621" "5013956" "5385216" "5484041" "5791427" "5856709" "5868410" "6050160" "6145386" "6305506" "6322164" "4623042" "4290268" "6046560" "4347471" "4930770" "5333944" "5457372" "5628472" "5664735" "5705903" "5927447" "5990653" "6067159" "6111643" "6131057" "6151962" "6158822" "6199670" "6206482" "6231134" "6241053" "6270172" "6416140" "6425643" "6464308" "5804935" "6005358" "4588057" "5343134").pn. ("4548298" "4570766" "5679087" "5685798" "4297038" "4362004" "4406352" "4458193" "4760278" "4864872" "4895227" "4898342" "4926977" "4986614" "4997237" "5000524" "5009063" "5219214" "5327795" "5447895" "5477159" "5406154" "5435417" | USPAT; US-PGPUB | 2004/05/11 12:13 |
|----|---|--|--------------------|------------------|

| | | | | |
|----|---|--|--------------------|------------------|
| 15 | 3 | ("5928301" "5823281" "5012166" "5604412" "5734241" "5974878" "4358720" "4469995" "4797075" "4915319" "4980621" "5013956" "5385216" "5484041" "5791427" "5856709" "5868410" "6050160" "6145386" "6305506" "6322164" "4623042" "4290268" "6046560" "4347471" "4930770" "5333944" "5457372" "5628472" "5664735" "5705903" "5927447" "5990653" "6067159" "6111643" "6131057" "6151962" "6158822" "6199670" "6206482" "6231134" "6241053" "6270172" "6416140" "6425643" "6464308" "5804935" "6005358" "4588057" "5343134").pn. ("4548298" "4570766" "5679087" "5685798" "4297038" "4362004" "4406352" "4458193" "4760278" "4864872" "4895227" "4898342" "4926977" "4986614" "4997237" "5000524" "5009063" "5219214" "5327795" "5347895" "5371129" "5406154" "5435417" | USPAT; US-PGPUB | 2004/05/11 12:14 |
|----|---|--|--------------------|------------------|

| | | | | |
|----|------|--|---|------------------|
| 16 | 102 | vibration same electric adj motor same brak\$4 | USPAT; | 2004/05/11 12:14 |
| 17 | 150 | vibration same electric adj motor same brak\$4 | US-PGPUB | 2004/05/11 12:14 |
| 18 | 40 | vibration same electric adj motor same brak\$4 same rotat\$6 with electric adj motor | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 12:15 |
| 19 | 14 | vibration same electric adj motor same brak\$4 same rotat\$6 with electric adj motor same (rotor or disk or disc) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 12:17 |
| 20 | 37 | vibration same electric adj motor same brak\$4 same (rotor or disk or disc) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 12:24 |
| 21 | 1 | 2002-760191.NRAN. | USPAT; | 2004/05/11 12:18 |
| 22 | 23 | (vibration same electric adj motor same brak\$4 same (rotor or disk or disc)) not (vibration same electric adj motor same brak\$4 same rotat\$6 with electric adj motor) | US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 12:30 |
| 23 | 68 | vibration with suppress\$4 same motor same brak\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 12:31 |
| 24 | 63 | noise with suppress\$4 same motor same brak\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 12:31 |
| 25 | 120 | (vibration with suppress\$4 same motor same brak\$4) or (noise with suppress\$4 same motor same brak\$4) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 12:33 |
| 26 | 4 | ((vibration with suppress\$4 same motor same brak\$4) or (noise with suppress\$4 same motor same brak\$4)) and (188/\$.ccls. or 303/\$.ccls. or 318/\$.ccls.) and caliper | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 12:34 |
| 27 | 17 | ((vibration with suppress\$4 same motor same brak\$4) or (noise with suppress\$4 same motor same brak\$4)) and (188/\$.ccls. or 303/\$.ccls.) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 12:37 |
| 28 | 4962 | 188/72.1-72.9,156-165.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 12:38 |
| 29 | 19 | 188/72.1-72.9,156-165.ccls. and (noise or vibration) same electric adj motor | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 12:47 |
| 30 | 1105 | electric adj2 (motor or actuator) same piston same brak\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 12:48 |
| 31 | 27 | electric adj2 (motor or actuator) same piston same brak\$4 same (vibration or resonance or noise) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 13:00 |
| 32 | 1 | 2002-760191.NRAN. | USPAT; | 2004/05/11 12:50 |
| 33 | 289 | electric adj2 (motor or actuator) same piston and 188/\$.ccls. | US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 13:01 |
| 34 | 3657 | electric adj2 (motor or actuator) near6 rotat\$4 same detect\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 13:02 |

| | | | | |
|----|------|--|---|------------------|
| 35 | 1426 | electric adj2 (motor or actuator) near6 rotat\$4 same detect\$4 near5 rotat\$5 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 13:02 |
| 36 | 1426 | (electric adj2 (motor or actuator) near6 rotat\$4 same detect\$4 near5 rotat\$5) and (electric adj2 (motor or actuator) near6 rotat\$4 same detect\$4) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 13:02 |
| 37 | 102 | ((electric adj2 (motor or actuator) near6 rotat\$4 same detect\$4 near5 rotat\$5) and (electric adj2 (motor or actuator) near6 rotat\$4 same detect\$4)) and (vibrat\$4 or noise) with (suppress\$4 or inhibit\$4 or reduc\$6) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 13:04 |
| 38 | 0 | ((electric adj2 (motor or actuator) near6 rotat\$4 same detect\$4 near5 rotat\$5) and (electric adj2 (motor or actuator) near6 rotat\$4 same detect\$4)) and (vibrat\$4 or noise) with (suppress\$4 or inhibit\$4 or reduc\$6) and brak\$4 same caliper same motor | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 13:05 |
| 39 | 0 | ((electric adj2 (motor or actuator) near6 rotat\$4 same detect\$4 near5 rotat\$5) and (electric adj2 (motor or actuator) near6 rotat\$4 same detect\$4)) and (vibrat\$4 or noise) with (suppress\$4 or inhibit\$4 or reduc\$6) and brak\$4 and caliper same motor | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 13:05 |
| 40 | 1 | 188/218a.ccls. and (vibrat\$4 or noise) with (suppress\$4 or inhibit\$4 or reduc\$6) and brak\$4 and caliper same motor | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 13:06 |
| 41 | 14 | 188/218a.ccls. and (vibrat\$4 or noise) with (rotor or disk or disc) and brak\$4 and caliper | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 13:06 |
| 42 | 32 | 188/1.11\$.ccls. and (vibrat\$4 or noise) with (rotor or disk or disc) and brak\$4 and caliper | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 13:07 |
| 43 | 1 | 188/1.11\$.ccls. and (vibrat\$4 or noise) with (rotor or disk or disc) and brak\$4 and caliper and electric adj motor | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 13:08 |
| 44 | 25 | electric adj motor same motor near3 drive same vibration near3 control | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 13:09 |
| 45 | 1 | electric adj motor same motor near3 drive same vibration near3 control same brak\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 13:10 |
| 46 | 9 | electric adj motor same vibration near3 control same brak\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 13:10 |
| 47 | 1 | vibration near3 control same brak\$4 same caliper same piston | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 13:11 |
| 48 | 30 | vibration near3 (damp\$6 or control) same brak\$4 same caliper same piston | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 13:14 |
| 49 | 0 | 6047794.URPN. | USPAT | 2004/05/11 13:12 |
| 50 | 11 | ("4153815" "4417098" "4490841" "4562589" "5418858" "5426705" "5660251" "5667047" "5687818" "5860494" "5865515").PN. | USPAT | 2004/05/11 13:12 |
| 51 | 25 | 188/1.11e.ccls. and electric adj motor | USPAT; US-PGPUB | 2004/05/11 13:17 |
| 52 | 9 | electric adj motor and depression with force with sensor and caliper and brak\$4 | USPAT; US-PGPUB | 2004/05/11 13:30 |
| 53 | 2 | electric adj motor and depression with force with sensor and caliper and brak\$4 and amount same motor same (detect\$4 or calculat\$4) same rota\$6 | USPAT; US-PGPUB | 2004/05/11 13:21 |

| | | | | |
|----|--------|---|---|------------------|
| 54 | 4 | electric adj motor with fluctuat\$4 with brak\$4 | USPAT; US-PGPUB | 2004/05/11 13:31 |
| 55 | 0 | electric adj motor with drive same moteo same vibration | USPAT; US-PGPUB | 2004/05/11 13:31 |
| 56 | 611 | electric adj motor with drive same motor same vibration | USPAT; US-PGPUB | 2004/05/11 13:32 |
| 57 | 36 | electric adj motor with drive same motor same vibration same (current or voltage) near5 motor | USPAT; US-PGPUB | 2004/05/11 13:33 |
| 58 | 2 | electric adj motor with drive same motor same vibration same (current or voltage) near5 motor same brak\$4 | USPAT; US-PGPUB | 2004/05/11 13:33 |
| 59 | 1 | electric adj motor with drive same motor same vibration same (current or voltage) near5 motor same brak\$4 | EPO; JPO; DERWENT | 2004/05/11 13:33 |
| 60 | 4 | electric adj motor same vibration same (current or voltage) near5 motor same brak\$4 | EPO; JPO; DERWENT | 2004/05/11 13:33 |
| 61 | 36 | advics.asn. and brak\$4 and motor | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 13:36 |
| 62 | 1 | 2003-846324.NRAN. | DERWENT | 2004/05/11 13:36 |
| 63 | 322 | brak\$4 same electric adj motor same caliper | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 13:37 |
| 64 | 82 | brak\$4 same electric adj motor same caliper and (detecting or sensor or sensing) with motor | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 13:43 |
| 65 | 0 | brak\$4 same electric adj motor same caliper and (detecting or sensor or sensing) with motor and vibration.ab,clm,ti. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 13:39 |
| 66 | 0 | brak\$4 same electric adj motor same caliper and (detecting or sensor or sensing) with motor and vibration.ab,clm,ti. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 13:40 |
| 67 | 354152 | vibration.ab,clm,ti. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 13:40 |
| 68 | 0 | brak\$4 same electric adj motor same caliper and (detecting or sensor or sensing) with motor with (vibrat\$6 or squeal\$4 or noise) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/11 13:40 |
| 69 | 463 | (188/71.5).CCLS. | USPAT; US-PGPUB | 2004/05/11 13:48 |
| 70 | 0 | ("sepac.asn.").PN. | USPAT; US-PGPUB | 2004/05/11 13:48 |
| 72 | 27 | 188/171-173.ccls. and stack | USPAT; US-PGPUB | 2004/05/11 13:49 |
| 71 | 13 | 188/171-173.ccls. and swing | USPAT; US-PGPUB | 2004/05/11 13:51 |
| 74 | 0 | armature with leaf with spring with (swing\$6 or arc or rotat\$5) with (pad or shoe) | USPAT; US-PGPUB | 2004/05/11 13:52 |
| 73 | 150 | armature with leaf with spring with (swing\$6 or arc or rotat\$5) | USPAT; US-PGPUB | 2004/05/11 13:52 |

PLUS 5/11/04

Butler, Douglas

From: PLUS
Sent: Tuesday, May 11, 2004 8:21 AM
To: Butler, Douglas
Subject: PLUS Results for 10771459

Here are the PLUS search results for 10771459.

This search was prepared by the staff of the Scientific and Technical Information Center, SIRA. If you have questions or comments about this search, please reply via email to PLUS@uspto.gov.



10771459_QUAL.txt



10771459_LIST.txt



10771459_WEST.txt



10771459_EAST.txt



10771459.east



10771459_CLS.txt



10771459_CLSTITLES.txt



10771459_WDS.txt

xt

10771459_LIST

PLUS Search Results for S/N 10771459, Searched May 10, 2004

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

| | | |
|---------|---------|---------|
| 5928301 | 4548298 | 4335633 |
| 5823281 | 4570766 | 4352414 |
| 5012166 | 5679087 | 4355540 |
| 5604412 | 5685798 | 4355785 |
| 5734241 | 4297038 | 4370965 |
| 5974878 | 4362004 | 4372732 |
| 4358720 | 4406352 | 4387504 |
| 4469995 | 4458193 | 4421189 |
| 4797075 | 4760278 | 4430592 |
| 4915319 | 4864872 | 4431375 |
| 4980621 | 4895227 | 4453774 |
| 5013956 | 4898342 | 4455515 |
| 5385216 | 4926977 | 4457172 |
| 5484041 | 4986614 | 4459091 |
| 5791427 | 4997237 | 4460838 |
| 5856709 | 5000524 | 4467649 |
| 5868410 | 5009063 | 4468583 |
| 6050160 | 5219214 | 4477751 |
| 6145386 | 5327795 | 4480472 |
| 6305506 | 5347895 | 4491094 |
| 6322164 | 5406154 | 4491753 |
| 4623042 | 5435417 | 4502667 |
| 4290268 | 5470199 | 4502328 |
| 6046560 | 5489189 | 4506203 |
| 4347471 | 5517536 | 4507594 |
| 4930770 | 5552988 | 4508318 |
| 5333944 | 5568704 | 4516666 |
| 5457372 | 5645868 | 4522564 |
| 5628472 | 5664372 | 4522561 |
| 5664735 | 5773904 | 4523487 |
| 5705903 | 5788023 | 4527668 |
| 5927447 | 5801497 | 4548300 |
| 5990653 | 5917248 | 4560049 |
| 6067159 | 5920139 | 4567963 |
| 6111643 | 6059076 | 4579203 |
| 6131057 | 6059076 | 4581987 |
| 6151962 | 6101911 | 4593795 |
| 6158822 | 6105630 | 4598627 |
| 6199670 | 6163093 | 4600090 |
| 6206482 | 6186599 | 4603549 |
| 6231134 | 6241016 | 4765016 |
| 6241053 | 6247503 | 4770368 |
| 6270172 | 3659683 | 4771197 |
| 6416140 | 4122377 | 4772182 |
| 6425643 | 4244247 | 4779719 |
| 6464308 | 4263991 | 4789791 |
| 5804935 | 4274513 | 4791344 |
| 6005358 | 4276498 | 4792037 |
| 4588057 | 4326608 | 4792734 |
| 5343134 | 4333676 | 4793447 |

10771459_EAST

(5928301
5823281
5012166
5604412
5734241
5974878
4358720
4469995
4797075
4915319
4980621
5013956
5385216
5484041
5791427
5856709
5868410
6050160
6145386
6305506
6322164
4623042
4290268
6046560
4347471
4930770
5333944
5457372
5628472
5664735
5705903
5927447
5990653
6067159
6111643
6131057
6151962
6158822
6199670
6206482
6231134
6241053
6270172
6416140
6425643
6464308
5804935
6005358
4588057
5343134) .pn.
(4548298
4570766
5679087
5685798
4297038
4362004
4406352
4458193
4760278

10771459_EAST

4864872
4895227
4898342
4926977
4986614
4997237
5000524
5009063
5219214
5327795
5347895
5406154
5435417
5470199
5489189
5517536
5552988
5568704
5645868
5664372
5773904
5788023
5801497
5917248
5920139
6059076
6059076
6101911
6105630
6163093
6186599
6241016
6247503
3659683
4122377
4244247
4263991
4274513
4276498
4326608
4333676) .pn.
(4335633
4352414
4355540
4355785
4370965
4372732
4387504
4421189
4430592
4431375
4453774
4455515
4457172
4459091
4460838
4467649
4468583
4477751

10771459_EAST

4480472
4491094
4491753
4502667
4502328
4506203
4507594
4508318
4516666
4522564
4522561
4523487
4527668
4548300
4560049
4567963
4579203
4581987
4593795
4598627
4600090
4603549
4765016
4770368
4771197
4772182
4779719
4789791
4791344
4792037
4792734
4793447) .pn.

10771459_CLS
Most Frequently Occurring Classifications of Patents Returned
From A Search of 10771459 on May 10, 2004

Original Classifications

5 73/462
4 303/115.2
4 318/254
3 82/112
3 303/20
3 318/139
2 49/362
2 188/156
2 188/72.7
2 188/73.38
2 242/433.3
2 254/350
2 303/152
2 310/67R
2 318/269
2 356/450
2 415/129

Cross-Reference Classifications

7 188/162
5 303/20
4 180/65.8
4 188/158
4 303/162
3 180/165
3 180/65.4
3 188/72.3
3 188/72.8
3 303/3
3 318/375
2 29/596
2 49/199
2 82/151
2 180/65.7
2 187/254
2 188/1.11E
2 188/1.11L
2 188/181R
2 188/181T
2 188/185
2 188/264AA
2 188/71.9
2 188/72.1
2 188/72.4
2 188/73.45
2 192/18R
2 192/48.3
2 254/362
2 254/903
2 303/112
2 310/115
2 310/254
2 310/77
2 318/138

2 318/254
2 318/362
2 318/369
2 318/439
2 318/539
2 416/11
2 416/140
2 416/160
2 464/46
2 700/279

Combined Classifications

8 188/162
8 303/20
6 73/462
6 318/254
5 188/158
5 303/115.2
4 82/112
4 180/65.8
4 188/72.8
4 303/162
4 303/3
3 180/165
3 180/65.4
3 188/156
3 188/181T
3 188/72.1
3 188/72.3
3 188/72.7
3 192/18R
3 254/362
3 303/112
3 303/152
3 310/77
3 318/139
3 318/375
3 416/11
3 416/140
2 29/596
2 49/199
2 49/362
2 56/11.3
2 82/151
2 180/65.2
2 180/65.7
2 187/254
2 188/1.11E
2 188/1.11L
2 188/181R
2 188/185
2 188/18A
2 188/218R
2 188/218XL
2 188/264AA
2 188/70R
2 188/71.9
2 188/72.4
2 188/73.1

10771459_CLS

2 188/73.37
2 188/73.38
2 188/73.45
2 192/48.3
2 242/433.3
2 254/350
2 254/903
2 303/122
2 310/115
2 310/254
2 310/67R
2 310/76
2 310/93
2 318/138
2 318/269
2 318/362
2 318/369
2 318/432
2 318/439
2 318/539
2 356/450
2 415/129
2 416/132B
2 416/160
2 464/46
2 700/279
2 701/70

10771459 CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned
From A Search of 10771459 on May 10, 2004

8 188/162 (1 OR, 7 XR)
 Class 188 : BRAKES
 188/381 FRICTIONAL VIBRATION DAMPER
 188/158 .Electric
 188/161 ..Electromagnet
 188/162 ...Rotary motor

8 303/20 (3 OR, 5 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/20 ELECTRIC CONTROL

6 73/462 (5 OR, 1 XR)
 Class 073 : MEASURING AND TESTING
 73/66 ROTOR UNBALANCE
 73/460 .Dynamic (spinning)
 73/462 ..With electrical sensor and indicator

6 318/254 (4 OR, 2 XR)
 Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 318/254 SELF-COMMUTATED IMPULSE OR RELUCTANCE MOTORS

5 188/158 (1 OR, 4 XR)
 Class 188 : BRAKES
 188/381 FRICTIONAL VIBRATION DAMPER
 188/158 .Electric

5 303/115.2 (4 OR, 1 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/121 SPEED-CONTROLLED
 303/113.1 .Having a valve system responsive to a wheel
 lock signal
 303/115.1 ..System controlled by expansible chamber type
 modulator
 303/115.2 ...Having electric control

4 82/112 (3 OR, 1 XR)
 Class 082 : TURNING
 82/112 PORTABLE LATHE FOR BRAKE DRUM, DISC, OR SHOE

4 180/65.8 (0 OR, 4 XR)
 Class 180 : MOTOR VEHICLES
 180/54.1 POWER
 180/65.1 .Electric
 180/65.8 ..With electronic devices (logic gates,
 semi-conductors, vacuum tubes, etc.) in control circuit

4 188/72.8 (1 OR, 3 XR)
 Class 188 : BRAKES
 188/67 ROD
 188/71.1 .Axially movable brake element or housing
 therefor
 188/72.1 ..With means for actuating brake element
 188/72.7 ...By inclined surface (e.g., wedge, cam or
 screw)
 188/72.8 Screw or helical cam

10771459_CLSTITLES

4 303/162 (0 OR, 4 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/121 SPEED-CONTROLLED
 303/162 .Current control of linear piston drive motor

4 303/3 (1 OR, 3 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/2 MULTIPLE SYSTEMS
 303/3 .Fluid pressure and electric

3 180/165 (0 OR, 3 XR)
 Class 180 : MOTOR VEHICLES
 180/165 WITH FLUID OR MECHANICAL MEANS TO ACCUMULATE
 ENERGY (I) DERIVED FROM MOTION OF VEHICLE OR (II) OBTAINED
 FROM OPERATION OF VEHICLE MOTOR, AND GIVE UP THE ENERGY (I)
 WHEN NEEDED FOR VEHICLE ACCELERATION OR (2) TO POWER AN
 AUXILIARY SYSTEM OF THE VEHICLE

3 180/65.4 (0 OR, 3 XR)
 Class 180 : MOTOR VEHICLES
 180/54.1 POWER
 180/65.1 .Electric
 180/65.3 ..With means on vehicle for generating power
 for the electric motor
 180/65.4 ...Generating means is driven by a prime mover

3 188/156 (2 OR, 1 XR)
 Class 188 : BRAKES
 188/381 FRICTIONAL VIBRATION DAMPER
 188/156 .Electric and mechanical

3 188/181T (1 OR, 2 XR)
 Class 188 : BRAKES
 188/381 FRICTIONAL VIBRATION DAMPER
 188/174 .Weight
 188/180 ..Regulators
 188/181R ...Vehicle
 188/181TTorque-responsive

3 188/72.1 (1 OR, 2 XR)
 Class 188 : BRAKES
 188/67 ROD
 188/71.1 .Axially movable brake element or housing
 therefor
 188/72.1 ..With means for actuating brake element

3 188/72.3 (0 OR, 3 XR)
 Class 188 : BRAKES
 188/67 ROD
 188/71.1 .Axially movable brake element or housing
 therefor
 188/72.1 ..With means for actuating brake element
 188/72.3 ...And means for retracting brake element

10771459_CLSTITLES

- 3 188/72.7 (2 OR, 1 XR)
 Class 188 : BRAKES
 188/67 ROD
 188/71.1 .Axially movable brake element or housing
 therefor
 188/72.1 ..With means for actuating brake element
 188/72.7 ...By inclined surface (e.g., wedge, cam or
 screw)
- 3 192/18R (1 OR, 2 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/12R CLUTCH AND BRAKE
 192/18R .Sliding operation
- 3 254/362 (1 OR, 2 XR)
 Class 254 : IMPLEMENTS OR APPARATUS FOR APPLYING PUSHING
 OR PULLING FORCE
 254/264 APPARATUS FOR HAULING OR HOISTING LOAD,
 INCLUDING DRIVEN DEVICE WHICH CONTACTS AND PULLS ON CAB
- LE
- 254/266 .Device includes rotatably driven, cable
 contacting drum
 254/362 ..Drive includes electric motor
- 3 303/112 (1 OR, 2 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/121 SPEED-CONTROLLED
 303/112 .Torque sensing
- 3 303/152 (2 OR, 1 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/121 SPEED-CONTROLLED
 303/152 .Regenerative brakes
- 3 310/77 (1 OR, 2 XR)
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC
 310/40R .Rotary
 310/66 ..With other elements
 310/75R ...Drive mechanism
 310/77Brake
- 3 318/139 (3 OR, 0 XR)
 Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 318/139 BATTERY-FED MOTOR SYSTEMS
- 3 318/375 (0 OR, 3 XR)
 Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 318/362 BRAKING
 318/375 .Dynamic braking
- 3 416/11 (1 OR, 2 XR)
 Class 416 : FLUID REACTION SURFACES
 416/9 WITH MEANS POSITIONING FLUID CURRENT DRIVEN
 IMPELLER RELATIVE TO FLOW DIRECTION
 416/10 .Offset relative to flow direction
 416/11 ..Upstream pivotal mounting

10771459_CLSTITLES

- 3 416/140 (1 OR, 2 XR)
 Class 416 : FLUID REACTION SURFACES
 416/131 ARTICULATED, RESILIENTLY MOUNTED OR
 SELF-SHIFTING IMPELLER OR WORKING MEMBER
 416/140 .Including movement limit stop or damping means
- 2 29/596 (0 OR, 2 XR)
 Class 029 : METAL WORKING
 29/592 METHOD OF MECHANICAL MANUFACTURE
 29/592.1 .Electrical device making
 29/596 ..Dynamoelectric machine
- 2 49/199 (0 OR, 2 XR)
 Class 049 : MOVABLE OR REMOVABLE CLOSURES
 49/197 UP-AND-OVER TYPE; E.G., MOVES FROM VERTICAL TO
 WITHDRAWN HORIZONTAL OVERHEAD POSITION
 49/199 .With operator
- 2 49/362 (2 OR, 0 XR)
 Class 049 : MOVABLE OR REMOVABLE CLOSURES
 49/324 WITH OPERATOR FOR MOVABLY MOUNTED CLOSURE
 49/360 .Operator drives closure along guide
 49/362 ..Rack or screw parallel to closure guide
- 2 56/11.3 (1 OR, 1 XR)
 Class 056 : HARVESTERS
 56/10.1 MOTORIZED HARVESTER
 56/10.8 .With selective control of drive means
 56/11.3 ..By brake and disengageable drive (e.g.,
 clutch)
- 2 82/151 (0 OR, 2 XR)
 Class 082 : TURNING
 82/117 LATHE
 82/150 .Center
 82/151 ..Alignment adjuster
- 2 180/65.2 (1 OR, 1 XR)
 Class 180 : MOTOR VEHICLES
 180/54.1 POWER
 180/65.1 .Electric
 180/65.2 ..Combined with nonelectric drive means
- 2 180/65.7 (0 OR, 2 XR)
 Class 180 : MOTOR VEHICLES
 180/54.1 POWER
 180/65.1 .Electric
 180/65.6 ..With gearing between electric motor and drive
 wheel
 180/65.7 ...Gearing is a changeable ratio gearing
- 2 187/254 (0 OR, 2 XR)
 Class 187 : ELEVATOR, INDUSTRIAL LIFT TRUCK, OR
 STATIONARY LIFT FOR VEHICLE
 187/250 HAVING SPECIFIC LOAD SUPPORT DRIVE-MEANS OR ITS
 CONTROL
 187/251 .Includes linking support cable (e.g., rope,
 chain) in drive-means

10771459 CLSTITLES

187/254 ..And rotatably driven drum pulling thereon

- 2 188/1.11E (0 OR, 2 XR)
 Class 188 : BRAKES
 188/1.11R WITH CONDITION INDICATOR
 188/1.11E .Electrical
- 2 188/1.11L (0 OR, 2 XR)
 Class 188 : BRAKES
 188/1.11R WITH CONDITION INDICATOR
 188/1.11W .Wear
 188/1.11L ..Electrical
- 2 188/181R (0 OR, 2 XR)
 Class 188 : BRAKES
 188/381 FRICTIONAL VIBRATION DAMPER
 188/174 .Weight
 188/180 ..Regulators
 188/181R ...Vehicle
- 2 188/185 (0 OR, 2 XR)
 Class 188 : BRAKES
 188/381 FRICTIONAL VIBRATION DAMPER
 188/174 .Weight
 188/180 ..Regulators
 188/184 ...Transversely expanding
 188/185Radial
- 2 188/18A (1 OR, 1 XR)
 Class 188 : BRAKES
 188/2R VEHICLE
 188/17 .Hub or disk
 188/18R ..Motor vehicle
 188/18A ...Disc brakes
- 2 188/218R (1 OR, 1 XR)
 Class 188 : BRAKES
 188/381 FRICTIONAL VIBRATION DAMPER
 188/218R .Brake wheels
- 2 188/218XL (1 OR, 1 XR)
 Class 188 : BRAKES
 188/381 FRICTIONAL VIBRATION DAMPER
 188/218R .Brake wheels
 188/218XL ..Disk type
- 2 188/264AA (0 OR, 2 XR)
 Class 188 : BRAKES
 188/381 FRICTIONAL VIBRATION DAMPER
 188/264R .Cooling and lubricating
 188/264A ..Air-cooled, axially engaging
 188/264AA ...Auto wheel type
- 2 188/70R (1 OR, 1 XR)
 Class 188 : BRAKES
 188/67 ROD
 188/70R .Axially and transversely movable
- 2 188/71.9 (0 OR, 2 XR)

10771459_CLSTITLES

- Class 188 : BRAKES
 188/67 ROD
 188/71.1 .Axially movable brake element or housing therefor
 188/71.7 ..With means to adjust for wear of brake
 188/71.8 ...Self-adjusting means
 188/71.9Including unidirectionally rotating screw
- 2 188/72.4 (0 OR, 2 XR)
 Class 188 : BRAKES
 188/67 ROD
 188/71.1 .Axially movable brake element or housing therefor
 188/72.1 ..With means for actuating brake element
 188/72.4 ...By fluid pressure piston
- 2 188/73.1 (1 OR, 1 XR)
 Class 188 : BRAKES
 188/67 ROD
 188/71.1 .Axially movable brake element or housing therefor
 188/73.1 ..Structure of brake element
- 2 188/73.37 (1 OR, 1 XR)
 Class 188 : BRAKES
 188/67 ROD
 188/71.1 .Axially movable brake element or housing therefor
 188/73.31 ..Retainer for brake element
 188/73.37 ...Having means to prevent vibration of brake element
- 2 188/73.38 (2 OR, 0 XR)
 Class 188 : BRAKES
 188/67 ROD
 188/71.1 .Axially movable brake element or housing therefor
 188/73.31 ..Retainer for brake element
 188/73.37 ...Having means to prevent vibration of brake element
 188/73.38Spring
- 2 188/73.45 (0 OR, 2 XR)
 Class 188 : BRAKES
 188/67 ROD
 188/71.1 .Axially movable brake element or housing therefor
 188/73.31 ..Retainer for brake element
 188/73.43 ...Including actuator slidable in plane parallel to axis of rotation of wheel
 188/73.44On axially extending pin
 188/73.45Plural pins
- 2 192/48.3 (0 OR, 2 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/30R CLUTCHES
 192/48.1 .Plural clutch-assemblage
 192/48.3 ..Diverse clutch-assemblages

10771459_CLSTITLES

- 2 242/433.3 (2 OR, 0 XR)
 Class 242 : WINDING, TENSIONING, OR GUIDING
 242/430 COMPOSITE ARTICLE WINDING
 242/433 .On externally toothed core (e.g., motor armature)
 242/433.3 ..By orbiting guide
- 2 254/350 (2 OR, 0 XR)
 Class 254 : IMPLEMENTS OR APPARATUS FOR APPLYING PUSHING OR PULLING FORCE
 254/264 APPARATUS FOR HAULING OR HOISTING LOAD, INCLUDING DRIVEN DEVICE WHICH CONTACTS AND PULLS ON C
- ABLE
- 254/266 .Device includes rotatably driven, cable contacting drum
 254/342 ..Drive includes intermeshing gears
 254/346 ...Drive also includes clutch mechanism having coaxial, rotatable relatively shiftable axially, power transmitting components
 254/350Components having frictional contact surface
- 2 254/903 (0 OR, 2 XR)
 Class 254 : IMPLEMENTS OR APPARATUS FOR APPLYING PUSHING OR PULLING FORCE
 254/903 YIELDABLE, CONSTANT ENGAGEMENT, FRICTION COUPLING (E.G., SLIP CLUTCH) IN DRIVE FOR CABLE PULLING DRUM
- 2 303/122 (1 OR, 1 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/121 SPEED-CONTROLLED
 303/122 .With failure responsive means
- 2 310/115 (0 OR, 2 XR)
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC
 310/40R .Rotary
 310/114 ..Plural rotary elements
 310/115 ...Field and armature both rotate
- 2 310/254 (0 OR, 2 XR)
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC
 310/40R .Rotary
 310/254 ..Stator structure
- 2 310/67R (2 OR, 0 XR)
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC
 310/40R .Rotary
 310/66 ..With other elements
 310/67R ...Inbuilt or incorporated unit
- 2 310/76 (1 OR, 1 XR)
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC

10771459_CLSTITLES

- 310/40R .Rotary
 - 310/66 ..With other elements
 - 310/75R ...Drive mechanism
 - 310/76Brake and clutch
- 2 310/93 (1 OR, 1 XR)
- Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 - 310/10 DYNAMOELECTRIC
 - 310/40R .Rotary
 - 310/92 ..Torque-transmitting clutches or brakes
 - 310/93 ...Brake type
- 2 318/138 (0 OR, 2 XR)
- Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 - 318/138 SPACE-DISCHARGE-DEVICE COMMUTATED MOTOR
- 2 318/269 (2 OR, 0 XR)
- Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 - 318/255 PLURAL DIVERSE MOTOR CONTROLS
 - 318/268 .Running-speed control
 - 318/269 ..With braking
- 2 318/362 (0 OR, 2 XR)
- Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 - 318/362 BRAKING
- 2 318/369 (0 OR, 2 XR)
- Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 - 318/362 BRAKING
 - 318/364 .Automatic and/or with time-delay means
 - 318/366 ..Condition of motor or driven device
 - 318/369 ...Speed, acceleration, movement or position of motor or driven device
- 2 318/432 (1 OR, 1 XR)
- Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 - 318/432 CONSTANT MOTOR CURRENT, LOAD AND/OR TORQUE CONTROL
- 2 318/439 (0 OR, 2 XR)
- Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 - 318/439 MOTOR COMMUTATION CONTROL SYSTEMS
- 2 318/539 (0 OR, 2 XR)
- Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 - 318/538 MOTOR STRUCTURE ADJUSTMENT OR CONTROL
 - 318/539 .Both armature and field structures rotatable or adjustable
- 2 356/450 (2 OR, 0 XR)
- Class 356 : OPTICS: MEASURING AND TESTING
 - 356/450 BY LIGHT INTERFERENCE (E.G., INTERFEROMETER)
- 2 415/129 (2 OR, 0 XR)
- Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS
 - 415/129 RUNNER OR BLADE SELECTIVELY ADJUSTABLE RELATIVE TO CASING
- 2 416/132B (1 OR, 1 XR)

10771459_CLSTITLES

Class 416 : FLUID REACTION SURFACES

416/131 ARTICULATED, RESILIENTLY MOUNTED OR
SELF-SHIFTING IMPELLER OR WORKING MEMBER

416/132R .Sectional, staged or nonrigid working member

416/132B ..Windmills

2 416/160 (0 OR, 2 XR)

Class 416 : FLUID REACTION SURFACES

416/147 HAVING POSITIVE MEANS FOR IMPELLER ADJUSTMENT

416/159 .Power or manual actuator on non-rotatable part

416/160 ..Planetary gearing connecting rotatable and
non-rotatable parts

2 464/46 (0 OR, 2 XR)

Class 464 : ROTARY SHAFTS, GUDGEONS, HOUSINGS, AND
FLEXIBLE COUPLINGS FOR ROTARY SHAFTS

464/30 OVERLOAD RELEASE COUPLING

464/45 .Torque transmitted via frictional engagement
of planar radially extending surfaces

464/46 ..With separate resilient member for biasing
surfaces into engagement

2 700/279 (0 OR, 2 XR)

Class 700 : DATA PROCESSING: GENERIC CONTROL SYSTEMS OR
SPECIFIC APPLICATIONS

700/90 SPECIFIC APPLICATION, APPARATUS OR PROCESS

700/275 .Mechanical control system

700/279 ..Balancing or alignment

2 701/70 (1 OR, 1 XR)

Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
RELATIVE LOCATION

701/1 VEHICLE CONTROL, GUIDANCE, OPERATION, OR
INDICATION

701/70 .Indication or control of braking,
acceleration, or deceleration